

## CLAIMS

1. A pharmaceutical composition comprising processed ginseng extract obtained by the steps essentially comprising acid treating ginseng extract and subsequent  
5 fermentation treating with lactic-acid bacteria or intestinal-bacteria, as an active ingredient in an amount effective to treat or prevent human or mammal suffering from brain strokes and brain diseases, together with a pharmaceutically acceptable carrier.
2. The pharmaceutical composition effective for treating or preventing human or  
10 mammal suffering from brain strokes and brain diseases according to claim 1, wherein said plant material comprises the root, stem, petal, leaf, fruit and their tissue cultivates thereof.
3. The pharmaceutical composition for treating or preventing human or mammal  
15 suffering from brain strokes and brain diseases according to claim 1, wherein said acid is acetic acid, citric acid, lactic acid or acid-containing food.
4. The pharmaceutical composition for treating or preventing human or mammal  
20 suffering from brain strokes and brain diseases according to claim 1, wherein said lactic acid bacteria is belonged to *Bifidobacterium* genus or *Lactobacillus* genus bacteria.
5. The pharmaceutical composition according to claim 4 wherein said lactic acid  
25 bacteria comprises at least one or the mixture thereof selected from the group consisting of *Bifidobacterium infantis*, *Bifidobacterium bifidum*, *Lactobacillus lactis*, *Clostridium butyricum*, *Bifidobacterium* K-103, *Bifidobacterium* K-506, *Bifidobacterium* K-513, *Bifidobacterium* K-525, *Bifidobacterium* KK-1 and *Bifidobacterium* KK-2.
- 30 6. The pharmaceutical composition for treating or preventing human or mammal suffering from brain strokes and brain diseases according to claim 1, wherein said intestinal bacteria is belonged to *Bacteriodes* genus, *Fusobacterium* genus or *Eubacterium* genus bacteria.
- 35 7. The pharmaceutical composition according to claim 6 wherein intestinal-bacteria comprises at least one or the mixture thereof selected from the group consisting of *Bacteriodes JY-6*, *Bacteriodes stercoris*, *Fusobacterium* K-60 and *Eubacterium* L-8.

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8. A pharmaceutical compositions comprising saponin compounds selected from the group consisting of ginsenoside Rb<sub>1</sub>, Rb<sub>2</sub>, Rc, Rd, Re, Rf, Rg<sub>1</sub>, 20-ginsenoside Rg<sub>3</sub>, and the mixture thereof, as an active ingredient in an amount effective to treat or prevent human or mammal brain stroke and brain diseases, together with a pharmaceutically acceptable carrier.
9. The pharmaceutical composition according to any of claims 1 to 8, wherein said pharmaceutical composition is provided in an acceptable carrier as powder, granule, tablet, capsule, aqueous medicine or injection.
10. A use of ginseng extract obtained by the steps essentially comprising acid treating ginseng extract and subsequent fermentation treating with lactic-acid bacteria or intestinal-bacteria in the preparation of the medicament to prevent or treat brain stroke and brain disease.
11. A health care food comprising the extract as set forth in claim 1 and a sitologically acceptable additive to prevent cancer or allergic diseases.
12. The health care food according to claim 12, wherein said health care food is provided as beverage type.